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☐ 1: NP_115972. ATP-binding casse...[gi:21729873]

Links

LOCUS ABCC11 1382 aa linear PRI 05-NOV-2002

DEFINITION ATP-binding cassette, sub-family C, member 11 isoform a;
multi-resistance protein 8; ATP-binding cassette transporter MRP8;
ATP-binding cassette protein C11 [Homo sapiens].

ACCESSION NP_115972

VERSION NP_115972.2 GI:21729873

DBSOURCE REFSEQ: accession [NM_032583.2](#)

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM [Homo sapiens](#)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (residues 1 to 1382)

AUTHORS Dean,M., Rzhetsky,A. and Allikmets,R.

TITLE The human ATP-binding cassette (ABC) transporter superfamily

JOURNAL Genome Res. 11 (7), 1156-1166 (2001)

MEDLINE [21329047](#)

PUBMED [11435397](#)

REFERENCE 2 (residues 1 to 1382)

AUTHORS Tammur,J., Prades,C., Arnould,I., Rzhetsky,A., Hutchinson,A.,
Adachi,M., Schuetz,J.D., Swoboda,K.J., Ptacek,L.J., Rosier,M.,
Dean,M. and Allikmets,R.

TITLE Two new genes from the human ATP-binding cassette transporter
superfamily, ABCC11 and ABCC12, tandemly duplicated on chromosome
16q12

JOURNAL Gene 273 (1), 89-96 (2001)

MEDLINE [21376129](#)

PUBMED [11483364](#)

REFERENCE 3 (residues 1 to 1382)

AUTHORS Bera,T.K., Lee,S., Salvatore,G., Lee,B. and Pastan,I.

TITLE MRP8, a new member of ABC transporter superfamily, identified by
EST database mining and gene prediction program, is highly
expressed in breast cancer

JOURNAL Mol. Med. 7 (8), 509-516 (2001)

MEDLINE [21475973](#)

PUBMED [11591886](#)

REFERENCE 4 (residues 1 to 1382)

AUTHORS Yabuuchi,H., Shimizu,H., Takayanagi,S. and Ishikawa,T.

TITLE Multiple splicing variants of two new human ATP-binding cassette
transporters, ABCC11 and ABCC12

JOURNAL Biochem. Biophys. Res. Commun. 288 (4), 933-939 (2001)

MEDLINE [21547789](#)

PUBMED [11688999](#)

COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The
reference sequence was derived from [AF367202.1](#).
On Jul 11, 2002 this sequence version replaced [gi:14211905](#).
Summary: The protein encoded by this gene is a member of the

superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABCI, MDR/TAP, MRP, ALD, OABP, GCN20, White). This ABC full transporter is a member of the MRP subfamily which is involved in multi-drug resistance. It is expressed at low levels in all tissues, except kidney, spleen, and colon. This gene and family member ABCC12 are determined to be derived by duplication and are both localized to chromosome 16q12.1. Their chromosomal localization, potential function, and expression patterns identify them as candidates for paroxysmal kinesigenic choreoathetosis, a disorder characterized by attacks of involuntary movements and postures, chorea, and dystonia. Multiple alternatively spliced transcript variants have been described for this gene. Transcript Variant: This variant (1), as well as variant 2, encodes the predominant isoform (a).

FEATURES	Location/Qualifiers
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<u>Region</u>	163..427 /region_name="ABC transporter transmembrane region. This family represents a unit of six transmembrane helices. Many members of the ABC transporter family (pfam00005) have two such regions" /note="ABC_membrane" /db_xref="CDD:pfam00664"
<u>Region</u>	536..691 /region_name="ATPases associated with a variety of cellular activities" /note="AAA" /db_xref="CDD:smart00382"
<u>Region</u>	537..708 /region_name="ABC transporter. ABC transporters for a large family of proteins responsible for translocation of a variety of compounds across biological membranes. ABC transporters are the largest family of proteins in many completely sequenced bacteria. ABC transporters are composed of two copies of this domain and two copies of a transmembrane domain pfam00664. These four domains may belong to a single polypeptide or belong in different polypeptide chains" /note="ABC_tran" /db_xref="CDD:pfam00005"
<u>Region</u>	849..1094 /region_name="ABC transporter transmembrane region. This family represents a unit of six transmembrane helices. Many members of the ABC transporter family (pfam00005) have two such regions" /note="ABC_membrane" /db_xref="CDD:pfam00664"
<u>Region</u>	1168..1360 /region_name="ATPases associated with a variety of

Region

cellular activities"
/note="AAA"
/db_xref="CDD:smart00382"
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/note="ABC_tran"
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/coded_by="NM_032583.2:79..4227"
/note="transporter"
/db_xref="LocusID:85320"
/db_xref="MIM:607040"

CDS

ORIGIN

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Revised: July 5, 2002.

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Oct 31 2002 16:00:17